



1 **PRODUCT CONFORMITY CERTIFICATE - System**

2 Certificate Number: **Sira Ex17Y2272** Issue: **1**

3 Equipment (System): **P8/IS**

4 Submitted for certification by: **Hawker Electronics Limited**

5 Address: **57, The Avenue  
Rubery Industrial Estate  
Birmingham  
B45 9AL  
United Kingdom**

6 This electrical system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

7 CSA Group Testing UK Ltd, being accredited by the United Kingdom Accreditation Service (UKAS), certifies that the system has been found to comply with the following Standards:

IEC 60079-25:2010	EN 60079-25:2010
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The assessment is recorded in CSA Test Report R80124149A.

8 The supplier of the electrical system referred to in this Certificate has the responsibility to ensure that the system conforms to the specification laid down in the Schedule to this Certificate and has satisfied the routine verifications and tests referred to therein.

The use of this system will normally be the subject of National Legislation and/or Installation Codes.

Signed: M Halliwell

A handwritten signature in black ink, appearing to read 'M Halliwell'.

Title: Director of Operations

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CSA Group Testing UK Ltd, Unit 6, Hawarden Industrial Park, Hawarden, Deeside, CH5 3US, United Kingdom

**SCHEDULE  
PRODUCT CONFORMITY CERTIFICATE**

**Sira 17Y2272  
Issue 1**

**9 SYSTEM**

**9.1 Hazardous Area**

Any of the following holder types – Certificates IECEx SIR 17.0066X, Sira 17ATEX2271X and CSAE 22UKEX1138X:

HPE5/X/IS	HPE7/X/IS	HPE7/P/X/IS	HPE7/PA/X/IS	HPE7/P/F/X/IS
HPE8/X/IS	HPE8/P/X/IS	HPE12/P/X/IS	HPE13A/X/IS	HPE13A/P/X/IS
HPE14/X/IS	HPE22/X/IS	HPE22/P/X/IS	HPE22/PA/X/IS	HPE22/P/Fa/X/IS
HPE23/X/IS	HPE23/P/X/IS			

**9.2 Non-Hazardous Area**

- i. Equipment which is unspecified except that it must not be supplied from, nor contain, under normal or abnormal conditions, a source of potential with respect to earth (ground) in excess of 250V a.c. r.m.s or 250V d.c.  
And
- ii. Controllers Type P8/IS/X – Certificates IECEx SIR 17.0065X, Sira 17ATEX2270X and CSAE 22UKEX1137X. The supply circuits to the controllers shall be limited to overvoltage Category I/II as defined in IEC 60664-1.

**9.3 Configuration**

Up to ten controllers may be used within a system with up to three holders per controller connected i.e. three single electrode type holders connected to each of the controller terminals 'G', 'P1' and 'P2'. Multiple controllers P1, P2 and G electrodes may be linked/shared between controllers.

Where a multiple controller system incorporates a Holder Type HPE5/X/IS as a common 'G' holder, the maximum number of holders than can be connected to the controller 'P1' / 'P2' terminals is five.

The applicable hazardous area temperature classes and ambient temperature ranges for a particular multi-holder IS system are as follows:

Holders incorporated	Temperature Class	Ambient temperature range
HPE5/X/IS only	T6	-20°C to +40°C
Any type apart from HPE5/X/IS	T4	-20°C to +80°C
Any type	T4	-20°C to +40°C

**9.4 Interconnecting Cable**

For multiple systems where cable cores associated with the outputs from controllers from different systems are contained within the same cable then such cables shall be either:

- i. Type A in accordance with IEC/EN 60079-25  
or
- ii. Type B in accordance with IEC/EN 60079-25

The capacitance and either the inductance or the inductance to resistance (L/R) ratio of the interconnecting cables shall not exceed the following values:

**SCHEDULE  
PRODUCT CONFORMITY CERTIFICATE**

**Sira 17Y2272  
Issue 1**

**Cable Parameters System with up to 6 controllers:**

Group	Capacitance ( $\mu$ F)	Inductance (mH)	L/R Ratio ( $\mu$ H/ $\Omega$ )
IIC	0.143	0.77	31
IIB	1.03	2.33	125
IIA	3.71	6.20	250

**System with up to 10 controllers:**

Group	Capacitance ( $\mu$ F)	Inductance (mH)	L/R Ratio ( $\mu$ H/ $\Omega$ )
IIC	0.143	0.25	18.2
IIB	1.03	0.76	56
IIA	3.71	2.03	145

**Variation 1** - This variation introduced the following changes:

- The introduction of UKEX certificate numbers for the P8/IS Controllers and the HPE...../IS Holders to the IS System documentation.
- To permit P1, P2 and G electrodes to be shared between multiple controllers.

**10 DESCRIPTIVE DOCUMENTS**

**Issue 0**

Number	Sheet	Rev	Date	Description
3454	1 of 1	A	05 Dec 17	P8/IS Installation Diagram

**Issue 1**

Number	Sheet	Rev	Date (Stamp)	Description
3454	1 of 1	B	29 Apr 22	P8/IS Installation Diagram Using Multiple Controllers

**11 Associated CSA Group Reports and Certificate History**

Issue	Date	Report number	Comment
0	07 December 2017	R70138892A	The release of the prime certificate.
1	22 August 2022	R80124149A	The introduction of Variation 1.

**12 CONDITIONS OF CERTIFICATION**

- The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Testing UK Ltd. certificates.
- This certificate relates only to the system specified herein as executed in the documents supplied for evaluation.
- In affixing the certificate number Sira Ex 17Y2272 to the system the certificate holder / user / installer attests on their own responsibility that the system conforms to the descriptive system document. All apparatus within the system shall be readily identifiable and the descriptive system document shall be readily traceable.

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